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EPHEMERIS FOR PHYSICAL OBSERVATIONS OF THE MOON FOR CERTAIN DATES BETWEEN 1890 AND 1896.

COMMUNICATED BY DR. A. MARTH, F. R. A. S.

NOTE.—Dr. MARTH has been so good as to compute the following table, corresponding to times at which certain negatives of the Moon have been taken at Mt. Hamilton with the thirty-six-inch refractor. The times usually correspond to focal negatives presented by the Lick Observatory to the Observatory of Prague. The last entry refers to Map No. 1 of the Observatory Atlas of the Moon, published by the Lick Observatory. It is Dr. MARTH's intention to continue these computations. E. S. H.

Date.	Pacific S. T.	Selenographical Colong. | Latit. of the Sun.	Topocentric Libration. Longit. | Latit.	Apparent Semi-diam of ☾'s Disc.	P.
	h. m. s.	° °	° °	″	°
1890, June 29	10 10	63.70+0.40	—5.72—1.22	982.6	8.40
	10 23	63.81+0.40	—5.75—1.20	982.7	8.37
July 20	7 53	319.23+0.88	—4.56—5.89	893.6	23.02
27	10 27	46.08+1.05	—7.56 0.00	978.9	5.52
Aug. 31	14 27	115.43+1.51	+5.62+6.66	992.3	337.80
Nov. 16	5 53	329.70+0.55	—2.49+4.88	973.2	349.29
17	6 8 35	342.01+0.53	—1.42+6.09	976.2	344.15
1891, July 13	8 24 57	3.60+1.13	—4.04—3.85	901.9	20.82
28	14 51 5.5	189.91+1.37	+6.59+1.88	955.1	346.87
Oct. 12	7 29 9	33.97+0.97	—5.84+7.51	981.8	341.39
—	7 30 54.5	33.98+0.97	—5.85+7.51	981.8	341.39
1892, Nov. 10	14 54 31	172.43—0.35	+8.58—6.50	935.5	18.68
—	15 52 41	172.92—0.35	+8.43—6.49	937.0	18.76
1893, July 20	8 22 45	0.58+1.52	+4.64+1.92	903.1	18.47
23	8 27 53	37.25+1.52	+0.94+5.51	891.4	7.82
Aug. 3	15 23 13	174.93+1.44	—4.06—0.70	972.6	341.46
—	15 30 45	174.99+1.44	—4.07—0.72	972.8	341.45
Aug. 29	13 13 48.5	131.43+1.07	—3.77+1.25	966.7	343.33
Oct. 26	10 50 52	117.48—0.41	+0 01—4.13	1003.9	349.25
—	16 3 14	120.12—0 42	—0.27—4.60	1004.1	350.03
1894, Nov. 8	10 16 52	45.27—1.14	—5.41+0.76	922.5	338 11
—	10 21 1.5	45.30—1.14	—5.42+0.76	922.4	338.11
1895, June 27	8 21 1.5	338.66+1.43	+3.68+1.00	982.6	21.39
Aug. 2	10 1 36	59.41+0.86	+4.84+6.59	904.0	354.20
—	11 43 3	60.27+0.86	+4.46+6.48	902.9	353.98
—	11 44 41	60.28+0.86	+4.46+6.48	902.9	353.98
7	15 25 11	123.10+0.73	—2.13+0.09	893.1	338.63
13	15 10 26	196.21+0.57	—7.01—6.19	941.2	347.97
14	16 17 26.5	209.00+0.54	—6.83—6.46	957.6	353.17
—	16 20 6.5	209.02+0.54	—6.84—6.45	957.7	353.18
Sept. 6	15 38 22	129.57—0.06	—4.80—3.82	903.1	338.81
Oct. 7	13 56 8	146.77—0.87	—5.81—6.45	933.9	349.72
8	14 41 2	159.32—0.89	—5.94—6.48	943.9	355.00
9	16 20 2	172.34—0.91	—5.96—6.12	956.0	0 94
—	16 36 20	172.48—0.91	—6.01—6.11	956.3	0.99
10	16 49 13.5	184.77—0.93	—5.48—5.34	967.6	6.69

The topocentric libration gives the selenographical longitude and latitude of the point on the Moon's surface which occupies the center of the disc, as seen from the Lick Observatory. P. denotes the position-angle of the Moon's axis, reckoned from the apparent circle of declination.*

REVIEW OF SOLAR OBSERVATIONS, 1895 (AUGUST–DECEMBER) AND 1896.

By David E. Hadden.

The following solar observations are a continuation of those communicated to the Society for the years 1891 to June, 1895, and published in Vol. VII., No. 45, of the *Publications*.

The instrumental outfit used has remained the same, viz.: a three-inch equatorially mounted telescope, and a grating spectroscope of 14,438 lines to the inch.

During the year 1896 the appearance and approximate position and size of each sun-spot group and facula have been sketched daily on sheets of paper containing a three-inch ruled circle, divided into quadrants, the east and west line being set parallel with the Sun's apparent motion, by allowing the limb of Sun's image to move tangent to the horizontal spider-line in the eye-piece; the observations are afterward properly corrected for position-angle of the Sun's axis and inclination to the ecliptic. By this means an approximate position of the latitude and longitude is obtained.

Complete observations and detailed descriptions of the results have been published in the *Monthly Review of the Iowa Weather and Crop Service*.

The following tables exhibit the summaries of these observations:—

RESUMÉ OF SOLAR OBSERVATIONS.

1895.

Months.	Number of Observing Days.	Mean Daily Number of		
		Groups.	Spots.	Faculæ.
July	3	. .	. .	. .
August	22	4.7	43.9	2.9
September	19	5.1	22.3	2.8
October	20	4.6	35.5	3.3
November	16	3.9	16.2	2.9
December	17	6.3	27.1	2.9

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* For a continuation of this article see the *Notices* L. O.

	R. A. (Equator). s.	Decl. ″
Bonn Observatory (Vol. VI; stars 9th magnitude)	.06	0.6
" " (Vol. VI; stars 9.2 and 9.3)	.07	0.8
Grant's Glasgow Catalogue	.06	0.8
Cordoba Zone Catalogue	.06	0.8
Bond's Zones (H. C. O. Vol. II)	.07	0.8
Schjellerup's 10,000 stars	.08	0.8
Copeland and Borgen's Catalogue	.08	0.8
Wilson's 644 stars	.09	0.8
Dunsink Observatory (1600 stars)	.07	0.9
Armagh Observatory (Catalogue II)	.08	0.9
Lamont's Zones (re-reduced in Munich Annals, II)	.08	0.9
Harkness' Gilliss Southern Zones	.04	1.1
Weisse's Bessel's Zones, I	.16	1.4
Göttingen (Klinkerfues Schur, 6900 stars)	.10	1.4
Argelander's Southern Zones (Oeltzen)	.12	1.4
Weisse's Bessel's Zones, II	.15	1.6
Cincinnati Observatory (4050 stars)	.12	1.8
Cape (Photographic) *Durchmusterung*	.27*	2.6*
Lacaille (B. A. A. S.)	0.3*	8.7*
Section II, Bonn *Durchmusterung*	.38*	9.6*
Cordoba (visual) "	.42*	13.8*
Section I, Bonn "	.70*	25.6*

E. S. H.

ADDENDUM TO DR. MARTH'S ARTICLE ON PAGE 76.

	h. m. s.	° °	° °	″	°
1890, Aug. 24	7 38 5	26.71+1.45	—6.38+1.02	972.3	1.92
1891, July 14	9 33 29.5	16.40+1.15	—5.25—2.61	908.6	18.45
14	9 35 32.5	16.42+1.15	—5.26—2.60	908.6	18.45
1895, July 30	8 22 54	21.98+0.93	+6.69+7.51	929.4	10.16
31	9 16 49	34.63+0.91	+6.23+7.55	918.8	4.92
31	9 17 49	34.64+0.91	+6.23+7.55	918.8	4.92
Oct. 10	16 2 2.2	184.33—0.93	—5.35—5.36	966.2	6.57

NOTICE TO MEMBERS.

Owing to a misunderstanding, an essential part of the manuscript of the present number was not received until April 10th, which accounts for the delay in the issue.

THE COMMITTEE ON PUBLICATION.

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* Probable errors of a printed catalogue-place.